



Trustworthy model-aware Analytics Data platform

General Meetings

Kick-off: Milan, Italy – January 21st, 2016

1st General Meeting: Sophia Antipolis (SAP), 21-22 April 2016

2nd General Meeting: Madrid (ATOS), 7-8 July 2016

3rd General Meeting: Rome (CINI), 9-10-11 November 2016

1st Advisory Board: Rome (SAP) 11 November 2016

4th General Meeting: Bruxelles (Belgium), 19-20 January 2017

Toreador Consortium

CONSORZIO
INTERUNIVERSITARIO
NAZIONALE PER
L'INFORMATICA (CINI), Italy

ENGINEERING -
INGEGNERIA INFORMATICA
SPA, Italy

SAP, Germany

THE CITY UNIVERSITY, UK

Open Research Data

The TOREADOR project take part to the Open Research Data Pilot promoted by EC. A new TOREADOR project dataset has been uploaded to the Zenodo repository. The dataset can be freely used for research activities. The dataset contains data from digital campaigns with all the relevant information.

TOREADOR community in Zenodo:

<https://zenodo.org/search?page=1&size=20&q=toreador>

Dataset (Campaign clicks):

<https://zenodo.org/record/290161#.WLVz3rGZO8o>

Advisory Board and SME Focus Workgroup (SFW)

The Advisory Board and the SME Focus Workgroup meetings took place in the same day (November 11, 2016) in Rome, at SAP office.

Go to <http://www.toreador-project.eu> and request the AB/SFW deliverable.

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UK/Belgium

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Next Issue

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TOREADOR is looking into the legal aspects of big data analytics

The TOREADOR project also includes a legal partner, the international law firm **Bird & Bird**, which will provide a general review of the legal management and compliance of the TOREADOR project during its entire duration. As part of its tasks, Bird & Bird will provide several reports including an impact assessment, remediation actions and FAQs applicable to all partners, Work Packages and Pilots in view of improving the legal compliance of the TOREADOR project. As part of this work, Bird & Bird has also been entrusted with the task of defining the legal aspects related to each Pilot.

During the first six-month period of the project, Bird & Bird prepared a deliverable intending to provide a preliminary background framework highlighting the main legal issues. Such deliverable provided an overview of the key legal issues to be considered throughout the TOREADOR project by the other partners, Work Packages and Pilots. It follows that the first legal deliverable is part of a

comprehensive plan to raise awareness of the legal issues related to big data analytics likely to have an impact on the TOREADOR project. In addition to providing a comprehensive memorandum, which explains in a lengthy format the various selected legal issues, a summary was provided to all partners in the form of a slide deck. The 66-slides presentation aims to serve as "a quick reference guide" to all partners. Such guide was presented to the whole consortium during a two-hour session at the first general meeting on 21 April 2016.

More specifically, the first deliverable focused on four key topics: (i) ownership and intellectual property rights; (ii) privacy and security; (iii) liability and ancillary legal issues; and (iv) contractual aspects and, in particular, data sharing issues. The first deliverable notably drew the following key conclusions.

Ownership & Intellectual Property Rights

First and foremost, it should be ensured that the software licences used in the TOREADOR platform are compatible in order for it to remain under a permissive open source licence.

It is also important to verify whether any "open data" is used in the TOREADOR project and to ensure that any use of such data is in line with the permitted use.

The TOREADOR platform should furthermore respect the rights of third parties, *inter alia* in the following contexts:

- Ownership of data: proper contractual arrangements are necessary to deal with legal risks regarding claims on the grounds of ordinary civil law proprietary ownership or other legal restrictions. It is important in the context of the TOREADOR project to assess

whether the data is protected and "owned" / restricted by a third party, in order to avoid any infringing use in case of absence of adequate authorisation.

- Copyright protection of data: it is necessary to assess, in the framework of the TOREADOR project, the possible copyright protection of data used in the context of big data analytics.
- Protection of databases: a more in-depth analysis is required to determine whether certain databases used and created in the TOREADOR project may be protected by the copyright protection on the structure of databases and/or by the sui generis database right. If not, contractual terms could be drafted in such a way as to prohibit any kind of extraction or re-utilisation of (part of) the databases.

The issues listed above will be further analysed in the context of another deliverable, which will provide a report on "Ownership and intellectual property aspects of data management in a big data context".

Privacy & Data Protection

The General Data Protection Regulation (the "GDPR") – applicable as from 25 May 2018 – will undoubtedly apply for any personal data processed in the framework of the TOREADOR project and to most partners of the project, acting as (co-)controllers or processors. It is therefore important that, throughout the entire duration of the TOREADOR project, the various partners take due account of each data protection principle and the related legal requirements as well as the grounds on which the personal data processing is carried out.

The TOREADOR platform should notably achieve this by integrating or implementing certain

measures such as for instance:

- integrating measures to pseudonymise (e.g., encrypt) personal data used by the platform;
- implementing the Privacy-by-Design requirements by embedding privacy into the design specifications of technologies, business practices, and physical infrastructures;
- integrating measures designed to implement data protection principles in an effective way;
- integrating necessary safeguards to meet privacy legal requirements and to protect rights of individuals;
- implementing mechanisms to ensure that, by default, only the personal data necessary for each specific purpose of the processing is processed and that it is not collected or retained beyond the minimum necessary for those purposes but only kept for as long as necessary to provide the product or service;
- relying on codes of conduct and certifications.

Security

As a potential supplier to essential and digital service providers, the TOREADOR platform may be subject to flow down obligations. In any event, it will have to comply with the security obligations imposed by the GDPR and in certain circumstances by the Network and Information Security Directive.

The privacy and security issues will be further analysed in the context of another deliverable, which will provide a report on "Privacy and security aspects of data management in a big data context".

Contractual Aspects

When discussing big data analytics, it is important to identify the various actors involved in collecting,

processing, managing and analysing the data, as well as the type of data involved. On such basis, it is required to carefully assess the multiplicity and the multiple layers of agreements governing the access and exchange of data between the various actors. Regrettably, the legal framework is currently not satisfactory. It will therefore be necessary to study in the near future the emerging issues related notably to ownership, interoperability, usability and access to data in various situations in order to increase the legal certainty related to the numerous agreements governing big data analytics.

General Meeting in Bruxelles

The international law firm Bird and Bird hosted the 4th General Meeting of the project in Bruxelles (January 19-20, 2017). See pictures below.



A picture of the 4th General Meeting held in B&B offices (Bruxelles).



At B&B premises (Bruxelles).

Academic Papers

Academic production continues. Some scientific publications are the following:

- C. Misale, M. Drocco, M. Aldinucci, and G. Tremblay. *A Comparison of Big Data Frameworks on a Layered Dataflow Model*, in *Proc. of HLPP2016*
- B. Di Martino and A. Esposito. *Semantic Techniques for Multi-cloud Applications Portability and Interoperability*, *Procedia Computer Science*, 2016

Project Deliverables

Busy end of year's eve: 31 deliverables uploaded to the European Commission portal on the 31st of December 2016.



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